

AMENDMENTS TO THE CLAIMS

Please amend claim 10 as indicated below, wherein added material is underlined. In addition, please cancel claims 1-9, 13, and 18-25. A complete listing of claims pending in the application following entry of this Amendment are presented as follows:

1-9. (Cancelled)

10. (Currently Amended) A testing apparatus for a game ball, the testing apparatus comprising:

a rotating element with a first end, a second end, and a longitudinal axis that extends through the first end and the second end, the rotating element being rotatable about the longitudinal axis;

a mount located proximal the first end of the rotating element and configured to secure to the game ball, the mount being rotatable with the rotating element about the longitudinal axis;

an airfoil extending around the rotating element, the airfoil having a rounded leading edge and a tapered trailing edge; and

a sensor that detects forces upon the game ball in a first direction and a second direction, the first direction corresponding with a direction between the leading edge and the trailing edge, and the second direction being orthogonal to both the first direction and the longitudinal axis.

11. (Original) The testing apparatus recited in claim 10, wherein the airfoil has a leading edge and the trailing edge, the airfoil being tapered between the leading edge and the trailing edge.

12. (Previously Presented) The testing apparatus recited in claim 11, wherein the airfoil is tapered in an area that is between the first end and the second end of the rotating element.

13. (Cancelled)

14. (Original) The testing apparatus recited in claim 10, wherein the mount is secured to the first end of the rotating element.

15. (Previously Presented) The testing apparatus recited in claim 10, wherein a tachometer is operatively connected to the rotating element and detects an angular velocity of the rotating element.

16. (Original) The testing apparatus recited in claim 10, wherein the testing apparatus further includes a motor that is operatively connected to the rotating element through a gear reducer.

17. (Original) The testing apparatus recited in claim 10, wherein the mount has a concave surface with a curvature that is substantially similar to a curvature of the game ball.

18-33. (Cancelled)

34. (Previously Presented) A testing apparatus for a game ball, the testing apparatus comprising:

- a rotating element with a first end, a second end, and a longitudinal axis that extends through the first end and the second end, the rotating element being rotatable about the longitudinal axis;
- a mount located proximal the first end of the rotating element and configured to secure to the game ball, the mount being rotatable with the rotating element about the longitudinal axis;
- a support extending around the rotating element, the support having a rounded leading edge and a tapered trailing edge that define a teardrop shape in the support; and
- a sensor that detects forces upon the game ball in a first direction and a second direction, the first direction corresponding with a direction between the leading edge and the trailing edge, and the second direction being orthogonal to both the first direction and the longitudinal axis.

35. (Previously Presented) The testing apparatus recited in claim 34, wherein the mount is secured to the first end of the rotating element.

36. (Previously Presented) The testing apparatus recited in claim 34, wherein a tachometer is operatively connected to the rotating element and detects an angular velocity of the rotating element.

37. (Previously Presented) The testing apparatus recited in claim 34, wherein the testing apparatus further includes a motor that is operatively connected to the rotating element.

38. (Previously Presented) The testing apparatus recited in claim 34, wherein the mount has a concave surface with a curvature that is substantially similar to a curvature of the game ball.